



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

D205-634-041
Job Sheet 177632



Part No: D205-634-041

Job Qty: 1 ea

Part Name: Replacement Skidtube with Standard Wearplates Fits LH or RH



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 5/15/18

Job Tracking No:

Due Date: 5/31/18

Created By: Michelle Gagnon-Donovan

Type: Stock

Description:

Note: DWG D2580 REV H SHEETS 1,2,3,8 IPP Rev:N 02.08.28 FP was QC5 in Step 27; Added QC5 to Step 30 KJ IPP Rev P 10.02.19 per PAR09-043 EC verified by:DD IPP Rev. O 06.02.28 Added paperwork EC IPP Rev:P 07-07-09 SS Wearplates & Gaskets JLM IPP Rev:Q 10.12.01 as per chg003 DD verf:EC IPP REV:R 12.01.23 AS PER ECN11-684 VERF:EC IPP REV:S 17.12.08 REMOVE GASKET AS PER INTUITIVE INFO DD VERF:JFS

Ship Via:



Container No: S072474



Part: D205-634-041

Job No: 177632

Serial No/Batch: S072474

Revision: H

Inspector:

Bill of Materials

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Date: 05/17/18

S072474x1

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	1 Ea		5/31/18	0.00	0.00	Start Up Skid tubes		M/6/6
110	CNC Bend Skid tubes	1 pcs		5/31/18	0.00	0.65	CNC Bend Skid tube		Jan 6/6
120	Skid tubes	1 pcs		5/31/18	0.00	2.89	Skid tubes-2		DD
130	QC	1 pcs		5/31/18	0.00	0.00	QC5		BE
140	Skid tubes	1 pcs		5/31/18	0.00	2.89	Skid tubes-2		DD DAS
150	QC	1 pcs		5/31/18	0.00	0.00	QC10		38 DAS
160	QC	1 pcs		5/31/18	0.00	0.00	QC5		9-88 38
170	HandFinish	1 pcs		5/31/18	0.00	1.31	HandFinish1		BE 18-05-29
180	Powdercoat	1 pcs		5/31/18	0.00	0.34	Powdercoat1		GR 18-05-29
190	QC	1 pcs		5/31/18	0.00	0.00	QC3		BE 18-05-29
200	HandFinish	1 pcs		5/31/18	0.00	1.31	HandFinish4		BE 18-05-29
210	QC	1 pcs		5/31/18	0.00	0.00	QC5		38
215	DC	1 pcs		5/31/18	0.00	0.00	DC		9-88 DAS
220	Packaging	1 pcs		5/31/18	0.00	0.00	Packaging3-1		DA 28
230	QC21-FG	1 Ea		5/31/18	0.00	0.00	QC21		2 18-05-29 1-89

Part Op 110 - 1-Bend as per program D2580.C on CNC Bender and Folio 16 2-Cut tubes as per Dwg. D2580 3- scribe batch# in Descriptions: aft end of tube

120 - 1- Deburr ends and remove bending marks 2- Prepare tube for welding as per QSI 004

140 - 1-Weld step D2576 as per Dwg. D2580 and QSI 004 2-Grind welds on step as per Dwg D2580 3- Insert D4202-1 spacer, swage as per QSI002 and trim/ grind flush per QSI002 and dwg. Hold x-bolt with DT9701 Use tube expander 1/2 x17G to start expansion and finish with 1/2 x 18G to achieve dwg dimension. 4-Drill holes for wearplates using DT 8217 & DT8937, 7.40" from most fwd saddle holes (ref only) Open holes to 19/64", adjust stopper not to hit web. Deburr 5-Drill pilot holes for aft cap using DT 8215 Open holes to 0.208". Deburr 6-Drill pilot holes for Tow ring using DT8091, open to .640" and Deburr

170 - Re-alodine tube as per QSI 005 section 4.1.2.1 do not acid etch and leave fwd cap out of solution.

180 - START TIME: 1:30 OVEN TEMPERATURE: 300° FINISH TIME: 2:00

200 - 1-Install inserts & wearplates as per Dwg. D2580. Use a drop of Sikaflex on insert holes before installing wearplates A/R Sikaflex-291 18787 Sikaflex expire date: 18/12 2-Coat D2594-3 O' rings with Petroleum Jelly and install on D2594-1 plugs as per Dwg D2580 3-Inspect for foreign object per QSI 024 4-Install 2855 Aft Cap as per Dwg D2580 and seal Fwd Step & Aft Cap with Sikaflex. Clean excess adhesive A/R Sikaflex-291 18787 Sikaflex expire date: 18/12 5-Wing Walk as per Dwg D2580 and QSI 005 4.4 Batch: 1138761

210 - Inspect Aft Cap, Fwd Step and Wing Walk of work to Current Step Inspect for Foreign objects per QSI 024

215 - Photocopy D205-634 bluefile & type labels per PPP D205-634-041 CHG006

220 - Identify and pack for shipping as per PPPD205-634-041 Location: _____ PPP Rev: _____

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
D2580-1	205 Bent Tube	1 Ea (1 ea)	90-Start up Operation	5070110
D2576-3	Step (Machining Detail)	1 Ea (1 ea)	140-Skid tubes	5069014
D4202-1	Spacer	20 Ea (20 ea)	140-Skid tubes	5094571
ALS7-1032-130	Rivnut	50 Ea (50 ea)	200-HandFinish	5045668
AN3-5A	Bolt	2 Ea (2 ea)	200-HandFinish	5041106-1
AN3C4A	Bolt	50 Ea (50 ea)	200-HandFinish	5041114
D2594-1	Plug	16 Ea (16 ea)	200-HandFinish	5059021
D2594-3	O-Ring	16 Ea (16 ea)	200-HandFinish	5049975
D2855	Cap	1 Ea (1 ea)	200-HandFinish	5045966
D3564-11	Wearplate Aft	1 Ea (1 ea)	200-HandFinish	5045900
D3564-13	Wearpad Fwd	1 Ea (1 ea)	200-HandFinish	5045900
D3564-5	Wearplate Center	1 Ea (1 ea)	200-HandFinish	5054590
D3564-9	Wearplate Fwd	1 Ea (1 ea)	200-HandFinish	5054592
NAS1149C0332R	Washer	50 Ea (50 ea)	200-HandFinish	5056493
NAS1149D0332J	Washer	2 Ea (2 ea)	200-HandFinish	5020606-1

Job Allocations				
Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	D2580-1	1	5	0
140-Skidtubes	D2576-3	1	44	0
	D4202-1	20	413	0
200-HandFinish	ALS7-1032-130	50	2,099	0
	AN3-5A	2	356	0
	AN3C4A	50	2,381	0
	D2594-1	16	528	0
	D2594-3	16	797	0
	D2855	1	97	0
	D3564-11	1	21	0
	D3564-13	1	18	0
	D3564-5	1	15	0
	D3564-9	1	21	0
	NAS1149C0332R	50	5,480	0
	NAS1149D0332J	2	2,313	0
Part Specifications				
Specifications could not be found.				

Plex 5/15/18 1:27 PM Dart.Gagnon.Michelle

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SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 1776.32
MAY 15 2018

ITEM	QTY -041	QTY -045	QTY -047	QTY -049	PART NUMBER	DESCRIPTION
1	X				D2580-041	SKIDTUBE ASSEMBLY
2		X			D2580-045	SKIDTUBE ASSEMBLY
3			X		D2580-047	SKIDTUBE ASSEMBLY
4				X	D2580-049	SKIDTUBE ASSEMBLY
20	1	1	1	1	D2500-1-190	EXTRUSION
21			16		D2570	BUSHING
22	1	1	1	1	D2570-3	STEP
23		4			D2579	SPACER
24	16	16	8	8	D2584-1	PLUG
25	16	16	8	8	D2584-3	O-RING
26	1	1	1	1	D2586	205 WEB
27	1	1	1	1	D2585	AFT CAP
28	1	1			D3584-5	WEARSHOE
29	1	1			D3584-9	WEARSHOE
30	1	1			D3584-11	WEARSHOE
31	1	1			D3584-13	WEARSHOE
32	20	20	24	24	D4202-1	SPACER
33			1		D4406-041	WEARPLATE ASSEMBLY
34			1		D4406-043	WEARPLATE ASSEMBLY
35				1	D5081-1	FWD WEARPLATE
36				1	D5081-3	AFT WEARPLATE
50	50	50			ALS7-1032-130 or AKS7-1032-130 or AKS4-1032-130 or AELS-1032-130	INSERT
51	50	50			AN3C4A	BOLT
52	2	2	2	2	AN3-5A	BOLT
53			8	8	AN4-45A	BOLT
54	50	50			NAS1148C0332R	WASHER (AN890C10L)
55	2	2	2	2	NAS1148D0332J	WASHER (AN890JD10L)
56			8	8	MS21042-4	NUT (OR MS21042L4)

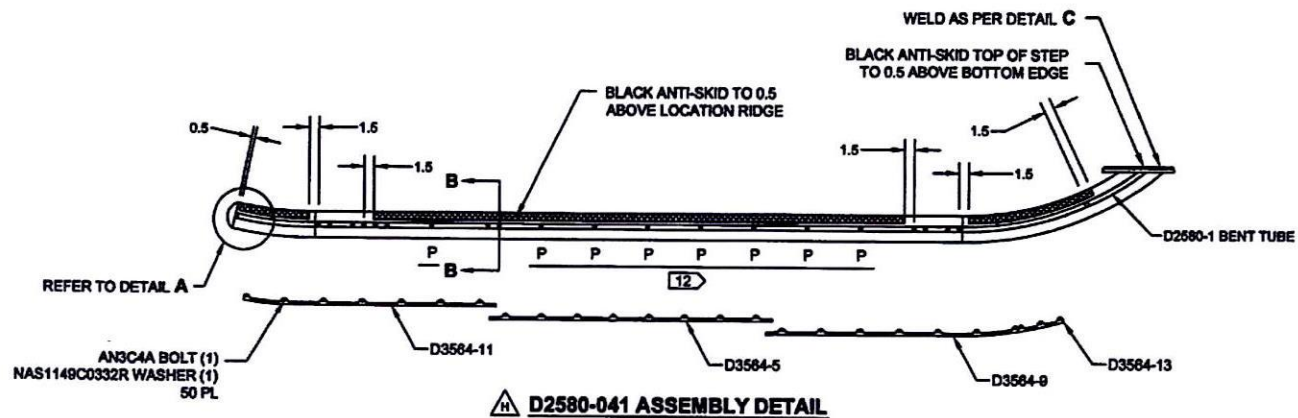
GENERAL NOTES:

- MATERIAL: N/A
- FINISH: CHEMICAL CONVERSION PER DART QSI 005 4.1 PRIOR TO INSERTING D2586 WEB
POWDER COAT (-041/-047/-049) GLOSS WHITE (REF 4.3.5.1) PER DART QSI 005 4.3
POWDER COAT (-045) GREEN SANDTEX (REF 4.3.5.6) PER DART QSI 005 4.3
BLACK ANTI-SKID PAINT AS INDICATED PER DART QSI 005 4.4.
- TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- UNITS: INCHES UNLESS OTHERWISE NOTED.
- BREAK SHARP EDGES: 0.005 TO 0.010 MAX.
- IDENTIFICATION: NONE
- WEIGHT: D2580-041 = 33.7 lbs
D2580-045 = 33.7 lbs
D2580-047 = 45.1 lbs
D2580-049 = 32.0 lbs
- WELDING PER DART QSI 004.
- INSERT D2586 WEB TO LOCATION SHOWN OFF AFT END OF SKIDTUBE AND BOND WEB INTO OUTER TUBE WITH NON-STRUCTURAL SIKAFLEX-241 ADHESIVE PER DART QSI 015 BEFORE BENDING. ENSURE HOLES LINE-UP.
- BEND AS A SMOOTH RADIUS STARTING WITH A MAXIMUM CENTERLINE RADIUS OF 60 AND ENDING WITH A MINIMUM RADIUS OF 30. A MAXIMUM REDUCTION OF 0.200 IN DIAMETER IS ALLOWABLE IN THE BENT PORTION OF THE TUBE.
- USE DART DRILL TEMPLATE DT8217 & DT8837 ONLY FOR D2580-041/-045 TO LOCATE AND DRILL Ø0.297 HOLES FOR WEARSHOE INSERTS. INSTALL ALS7-1032-130 PER SECTIONS B-B AND F-F (50 PLACES) AFTER FINISH. INSTALL AN3C4A BOLTS AND NAS1148C0332R WASHERS WITH SIKAFLEX-241/291.
- INSERT D2584-1 PLUG C/W D2584-3 O-RING IN HOLES MARKED "P" (BOTH SIDES OF TUBE) AFTER FINISH (16 PLACES FOR D2580-041/-045 AND 8 PLACES FOR D2580-047/-049)
- IT IS ACCEPTABLE TO GRIND A RELIEF IN THE D2585 AFT CAP TO PREVENT INTERFERENCE WITH THE SPACER AT THIS LOCATION

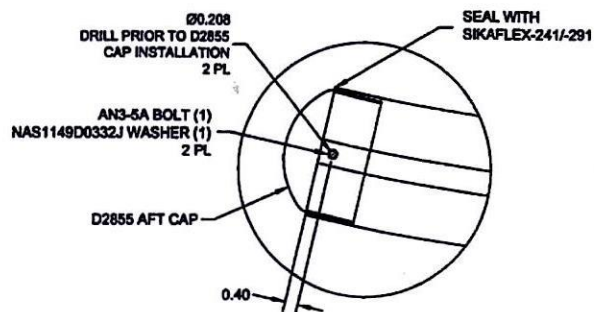
H	SHEET: PL DELETE D3580-1/-5/-13 GASKETS, WEIGHTS UPDATED ACCORDINGLY. SHEETS 2 & 4 PICTORIAL UPDATE FOR REMOVAL OF GASKETS	SAD	17.06.09
G	ADDED -048, -047 WEIGHT UPDATED PER DSI 9598	AJS	14.04.09
F	INCORPORATE DEO D2580-E-1 PER PAR12-218	DC	13.06.20
E	ADD D2580-047 (ZN C4-7) AND D2580-7 (ZN B3-8); INCLUDED DEO D2580-D-1; REFORMATTED DRAWING TO CURRENT STANDARDS; DT8217 & DT8837 WAS TD2577-205 (ZN C4-1)	RF	11.06.21
D	CHANGE TO SS WEARPLATES AND GASKETS, INCLUDE DEO 9124/ 9183	PH	07.04.05
C	REDRAWN, INCLUDED DEO 9094/ 9097	CP	06.06.26
B	AS MANUFACTURED	DS	06.12.02
A	NEW ISSUE	DS	06.06.16
REV.	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	SAD		
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MFG. APPR.	<i>[Signature]</i>		
APPROVED	<i>[Signature]</i>		
DE APPR.	<i>[Signature]</i>		
DATE	17.06.09		
DART AEROSPACE LTD HAWKESSBURY, ONTARIO, CANADA DRAWING NO. D2580 REV. H SHEET 1 OF 9 TITLE 205 SKIDTUBE ASSEMBLY SCALE NTS COPYRIGHT © 1998 BY DART AEROSPACE LTD THIS DOCUMENT IS UNCLASSIFIED AND IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR REPRODUCED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE LTD			

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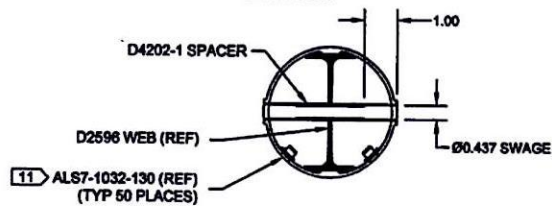
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DETAIL A
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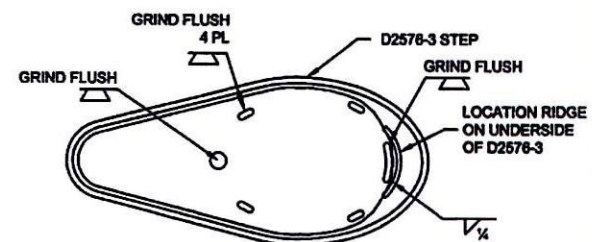


SECTION B-B
SCALE 5X



AFTER DRILLING AND BENDING ASSEMBLY
PERFORM THE FOLLOWING FOR Ø0.508 HOLES ONLY:
1. INSERT D4202-1 SPACER (20 PLACES)
2. SWAGE TO Ø0.437 X 1.00 DEEP PER QSI 002
3. TRIM / GRIND FLUSH PER QSI 002

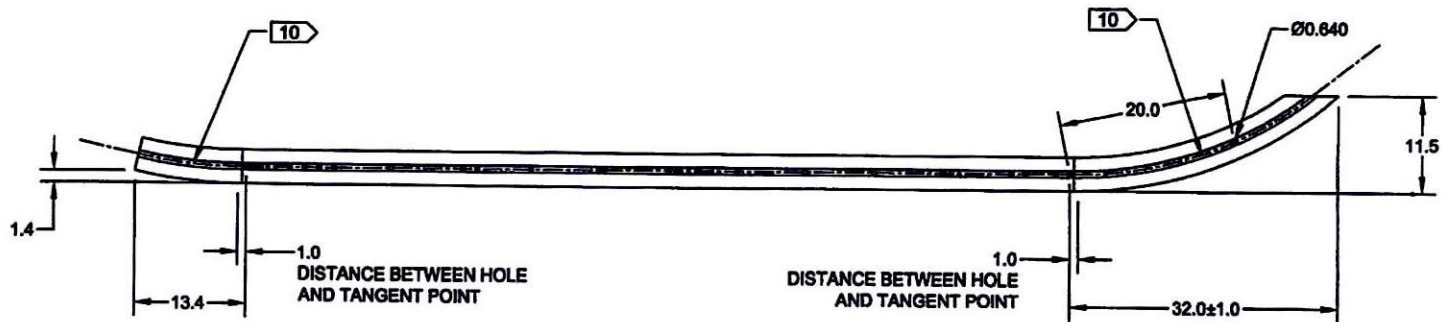
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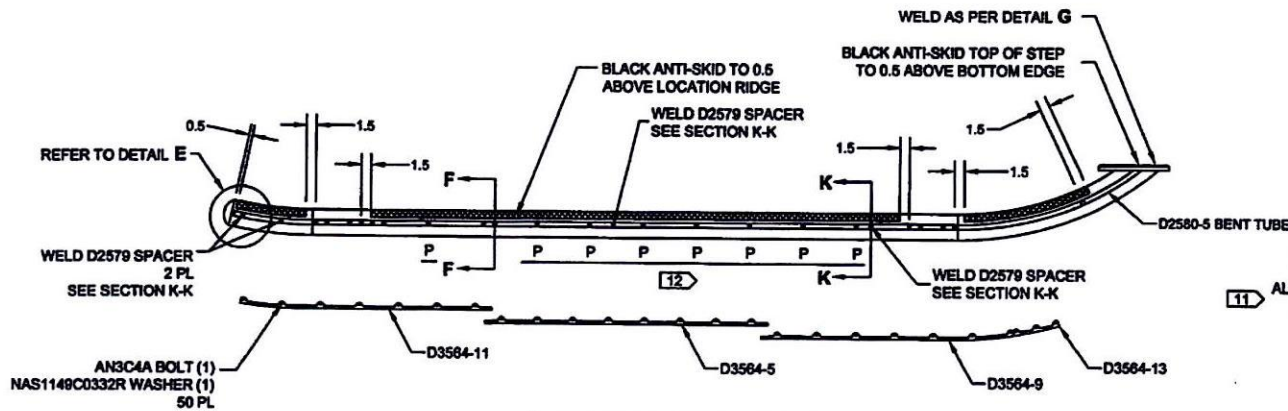
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D2580-1 BENT TUBE
(MAKE FROM D2580-101 TUBE)

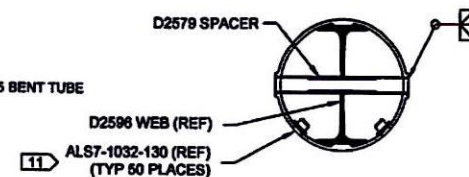
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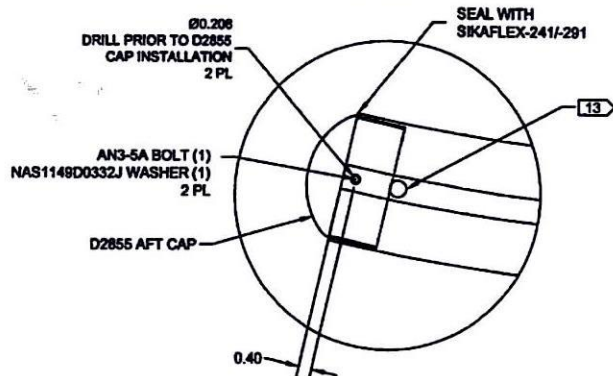
D2580-045 ASSEMBLY DETAIL

**SECTION K-K
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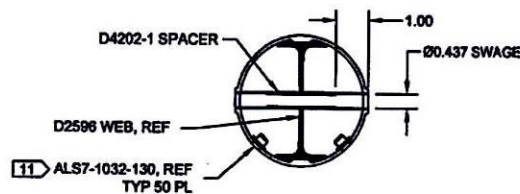


AFTER DRILLING AND BENDING ASSEMBLY
PERFORM THE FOLLOWING FOR Ø0.508 HOLES ONLY:
1. CHAMFER HOLE 0.050 X 45°
2. INSERT D2579 SPACER (4 PLACES)
3. WELD INTO PLACE AND GRIND FLUSH
4. DO NOT C'BORE

**DETAIL E
SCALE 5X**

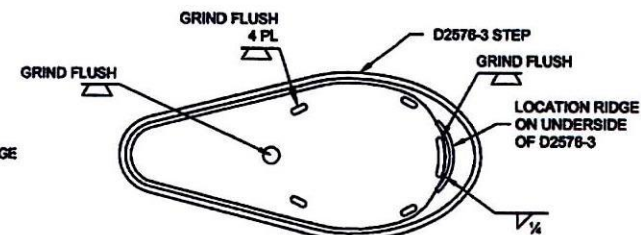


**SECTION F-F
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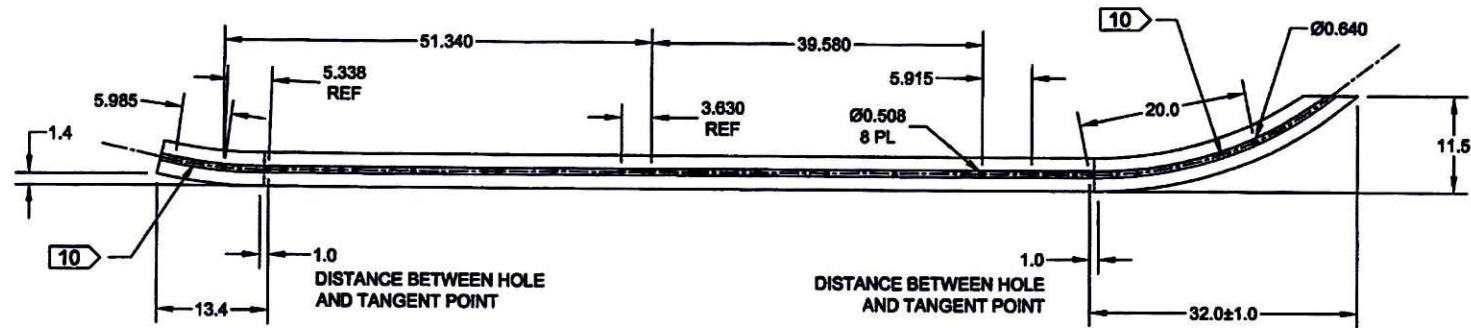
AFTER DRILLING AND BENDING ASSEMBLY
PERFORM THE FOLLOWING FOR Ø0.508 HOLES ONLY:
1. INSERT D4202-1 SPACER (20 PLACES)
2. SWAGE TO Ø0.437 X 1.00 DEEP PER QSI 002
3. TRIM/GRIND FLUSH PER QSI 002

**DETAIL G
SCALE 5X**



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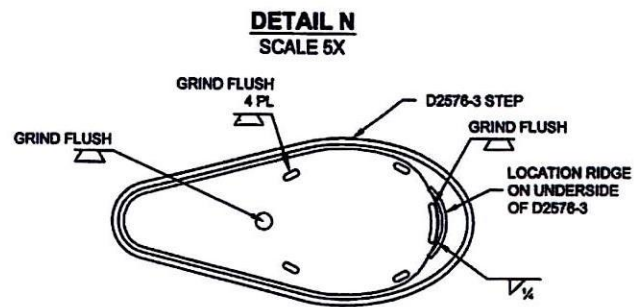
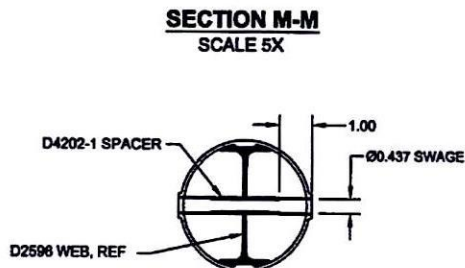
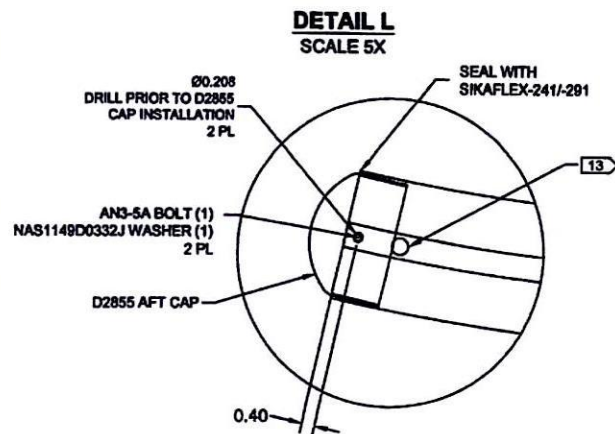
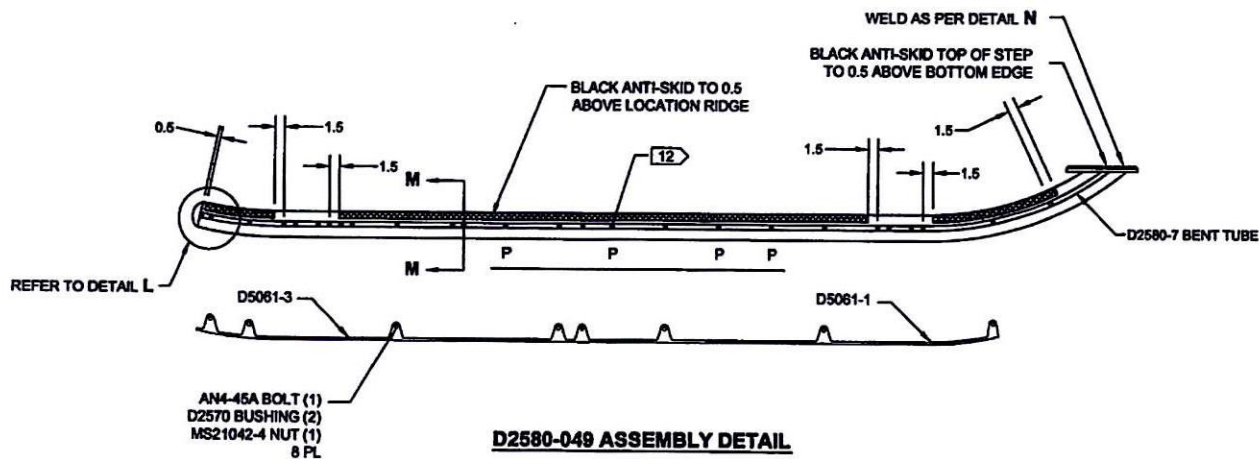
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D2580-5 BENT TUBE
(MAKE FROM D2580-101 TUBE)

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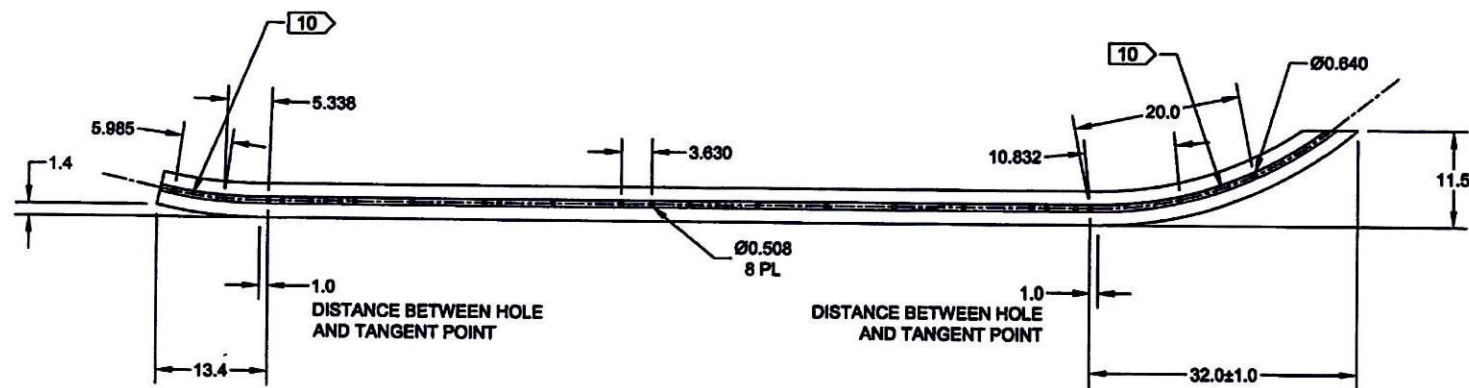
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AFTER DRILLING AND BENDING ASSEMBLY
PERFORM THE FOLLOWING FOR Ø0.508 HOLES ONLY:
1. INSERT D4202-1 SPACER (24 PLACES)
2. SWAGE TO Ø0.437 X 1.00 DEEP PER QSI 002
3. TRIM/GRIND FLUSH PER QSI 002

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2017 JUL 05

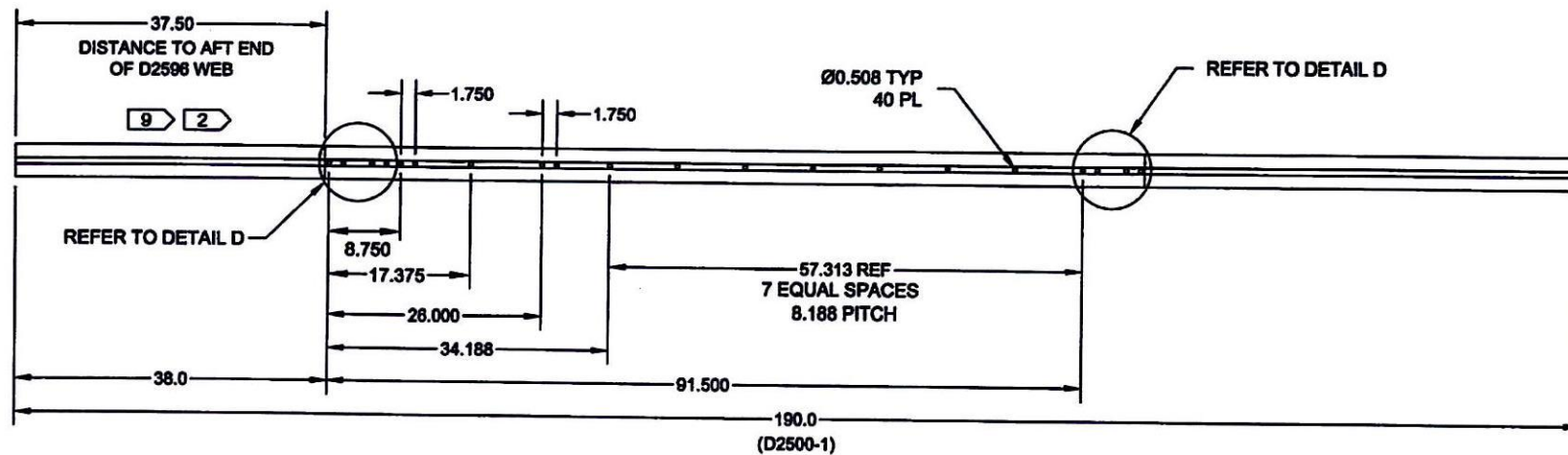
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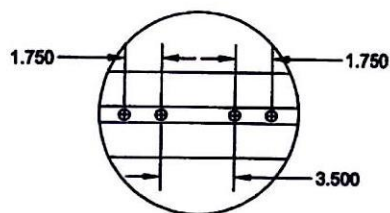
D2580-7 BENT TUBE
(MAKE FROM D2580-101 TUBE)

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D2580-101 TUBE



DETAIL D
SCALE 5X

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